Calibration Procedure For the Verification of Calipers Used in Calibration of Laboratory Equipment

A. Purpose

The purpose of this procedure is to verify the accuracy of calipers which are use in measuring eh critical dimensions of laboratory equipment such as soil density molds, volume change rings, CBR molds, and cube molds using an N.I.S.T. traceable standard CALIPER CHECKER and / or MICROMETER BLOCK.

B. Apparatus Required

1. "MIKEMASTER" Surveillance Kit, 0 in. to 1 in., MICROMETERS BLOCK.
2. "MITUTOYO" CALIPER CHECKER 1in. to 12 in.
3. Micrometer or Caliper to be checked.

C. Procedure

1. Zero the Micrometer or Caliper to be verified. Using the CALIPER CHECKER and MICROMETER BLOCK, measure and record the readings from the calipers as you move from point to point along the side of the block.

D. Tolerances

1. Calipers and Micrometers should be checked to ±.002 inch tolerance listed in ASTM C109, Table 1.

Note: CCRL inspection shall be the verification of record.

CALIPER CHECKER

Mitytoyo 1 inch to 12 inch
Model# CC-12" C
Code# 515-565
Serial# 0700007

Verified By: _____

Date _____ / _____ / _____

MICROMETER BLOCK

Mikemaster 0 to 1 inch
Serial# 441

Verified By: _____

Date _____ / _____ / _____